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FIG. 1

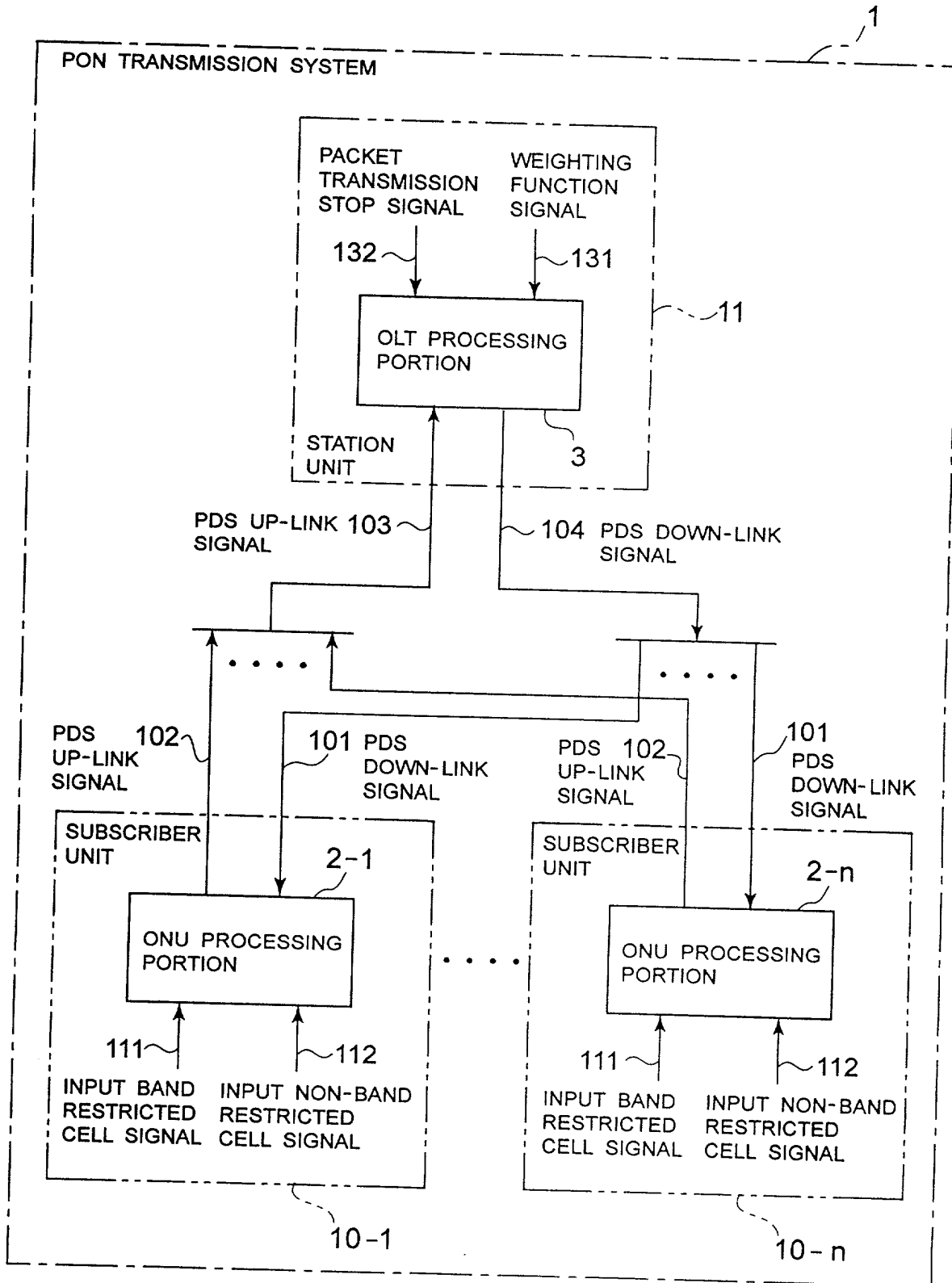


FIG. 2

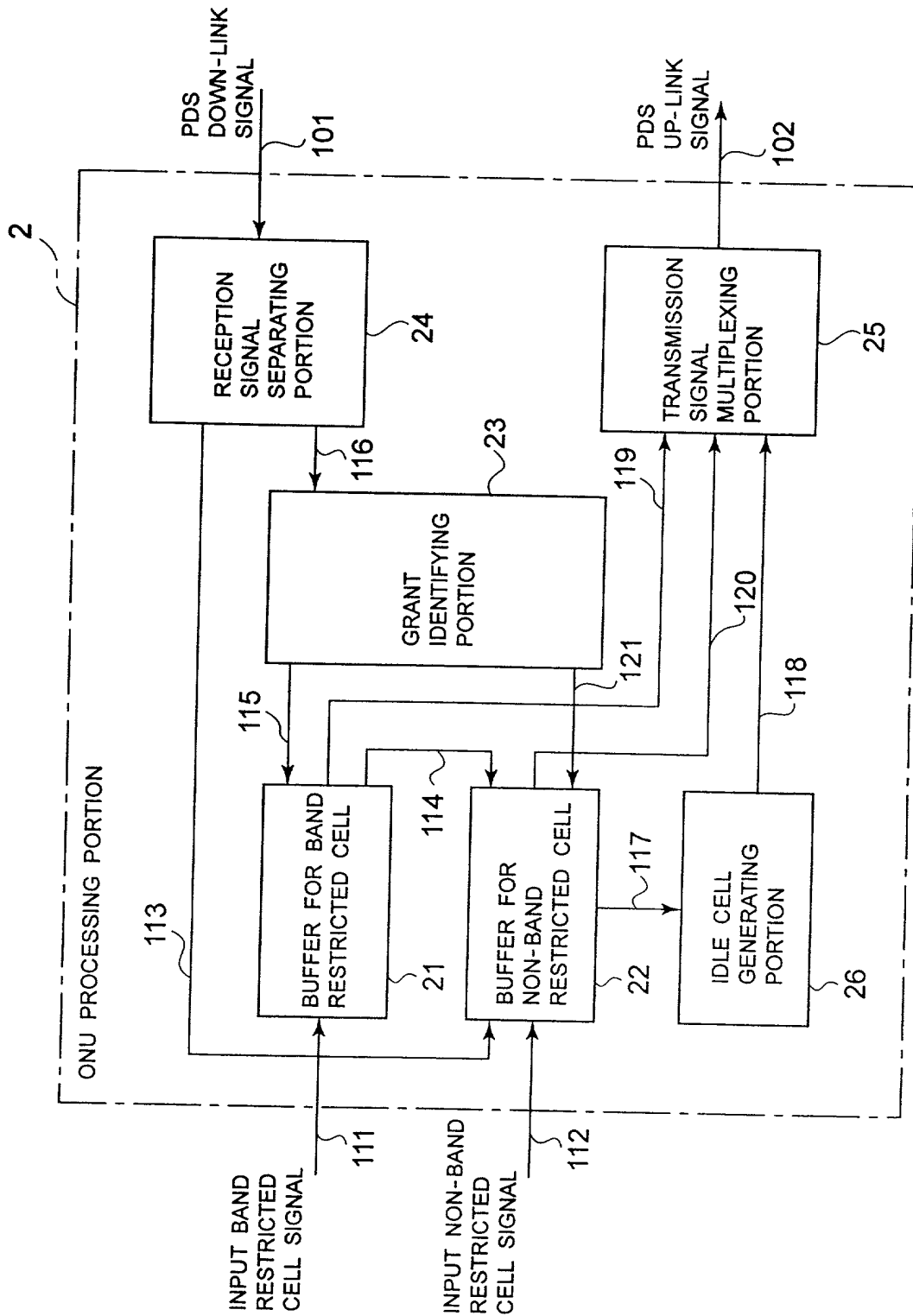
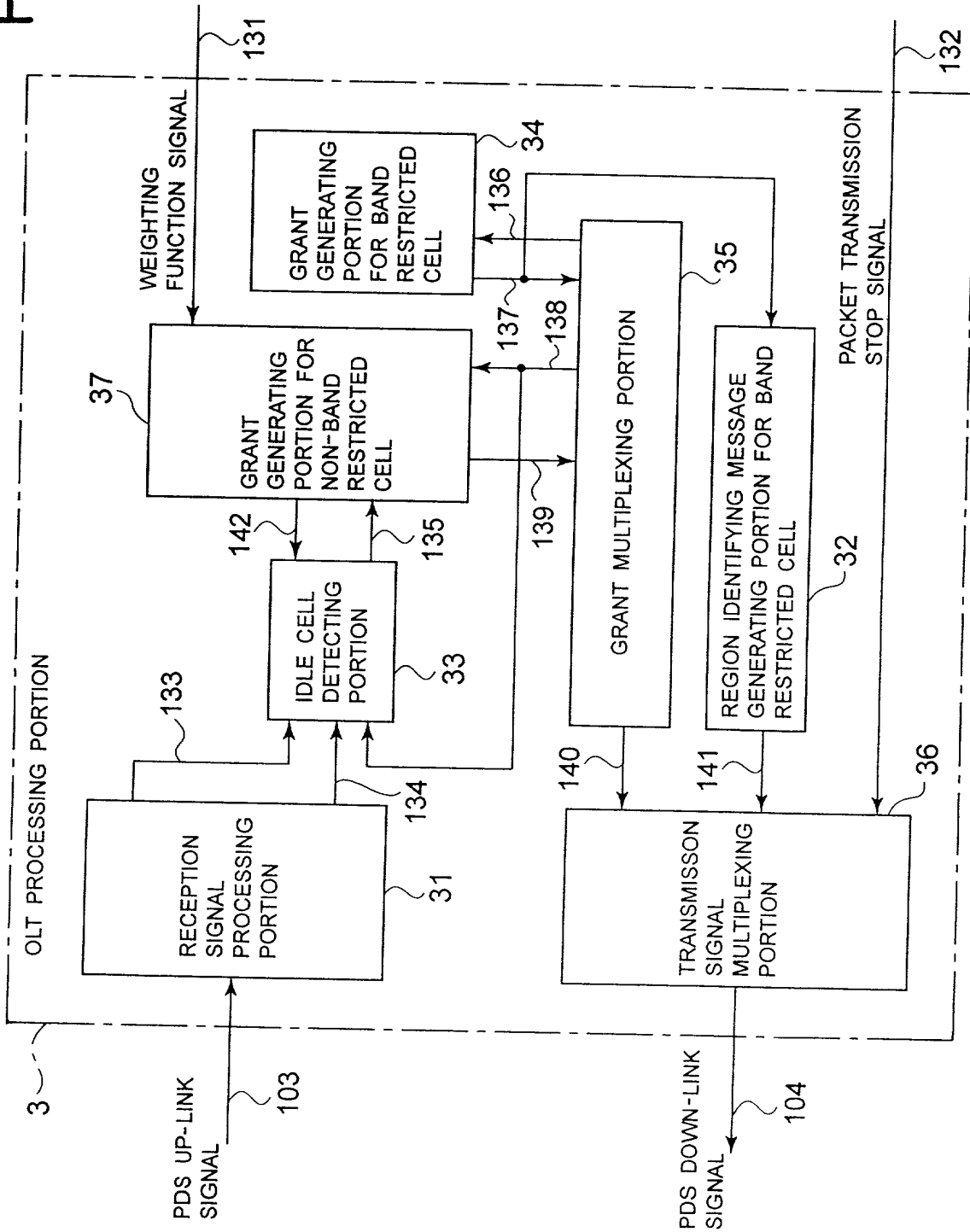


FIG. 3



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FIG. 4

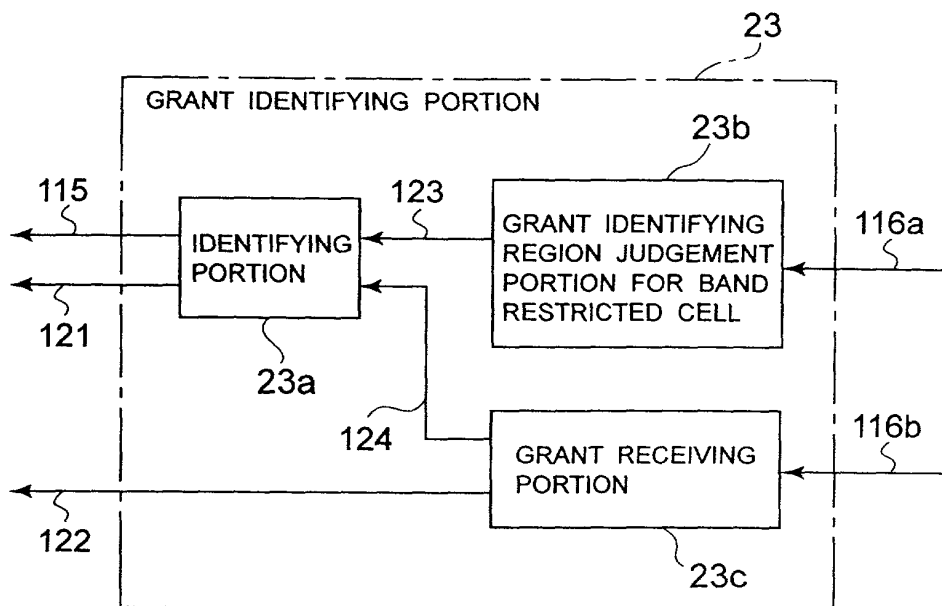
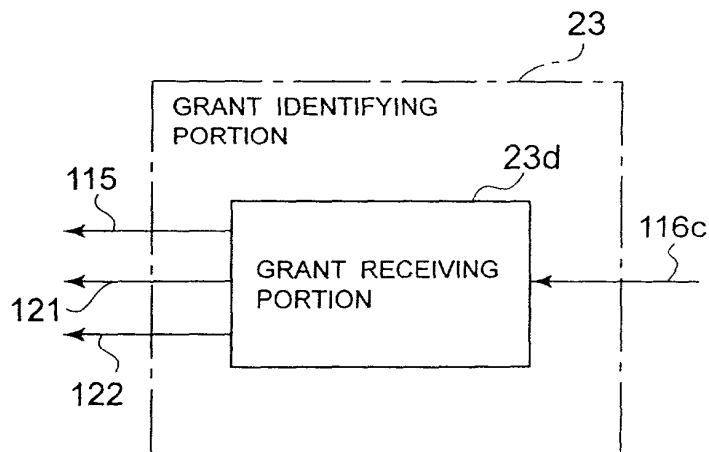
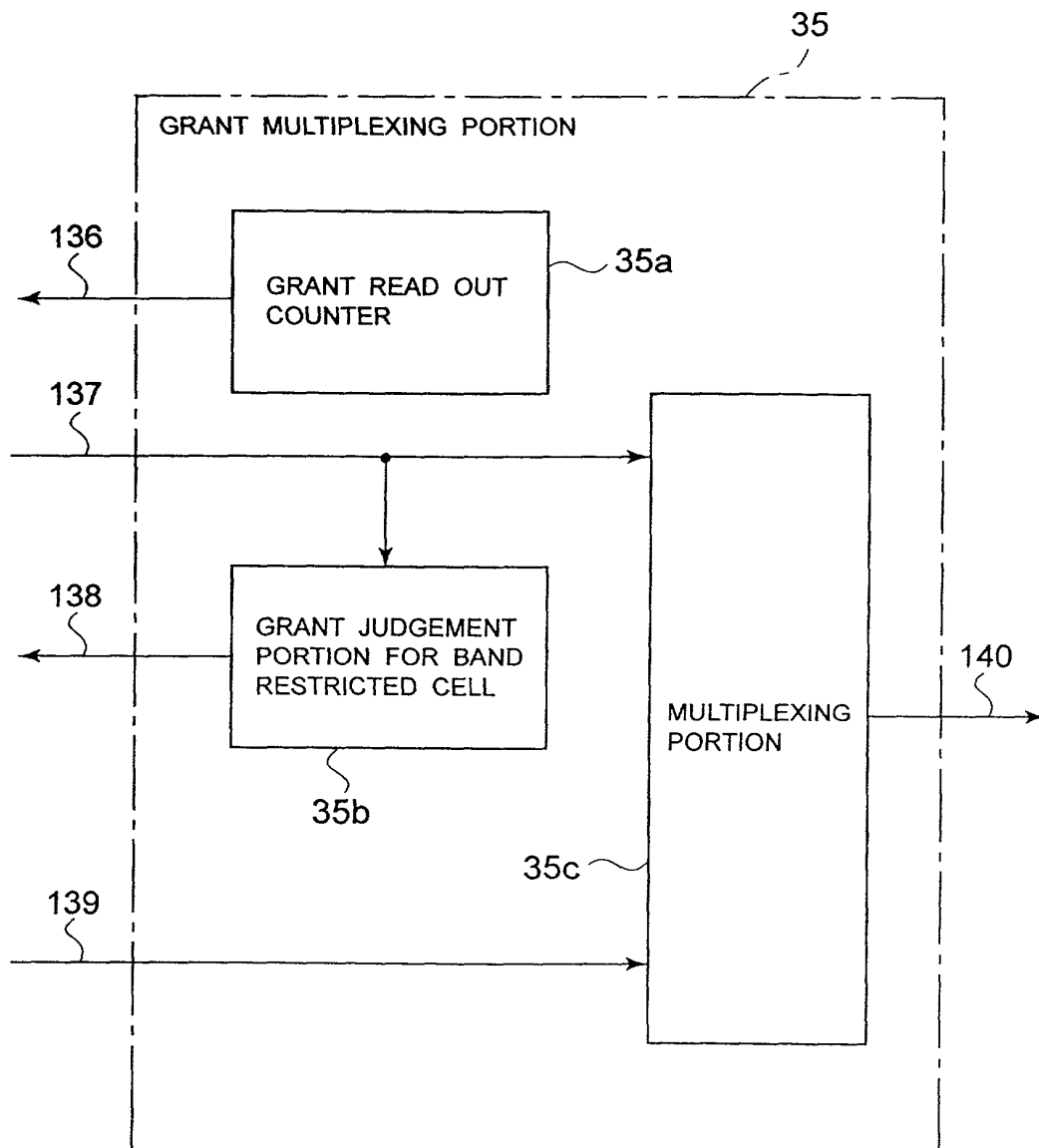


FIG. 5



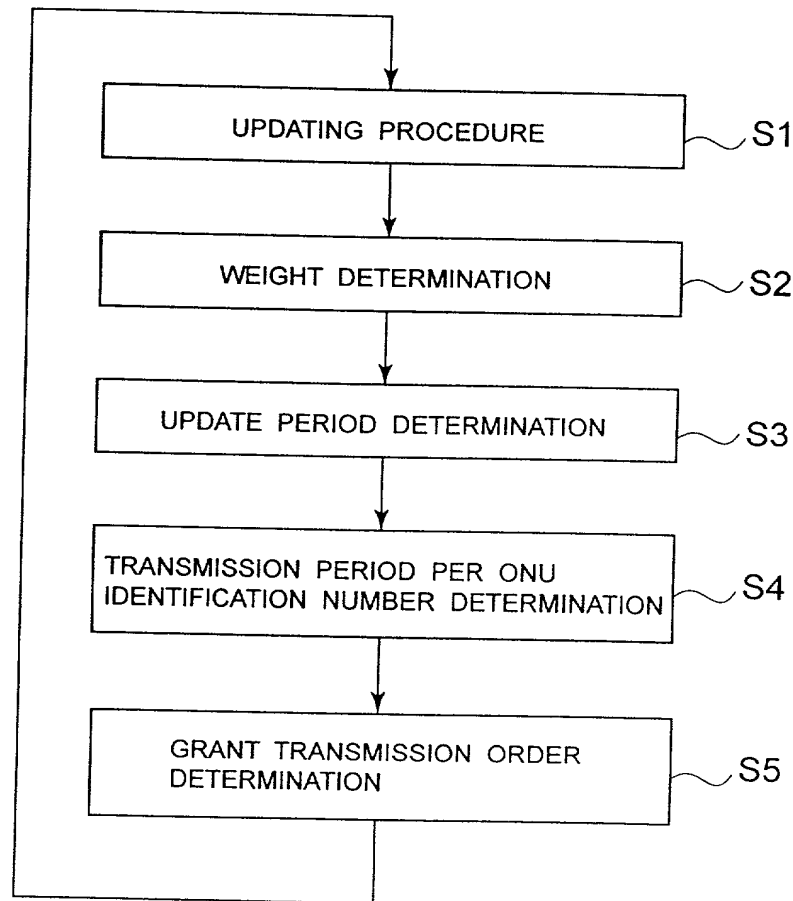
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FIG. 6



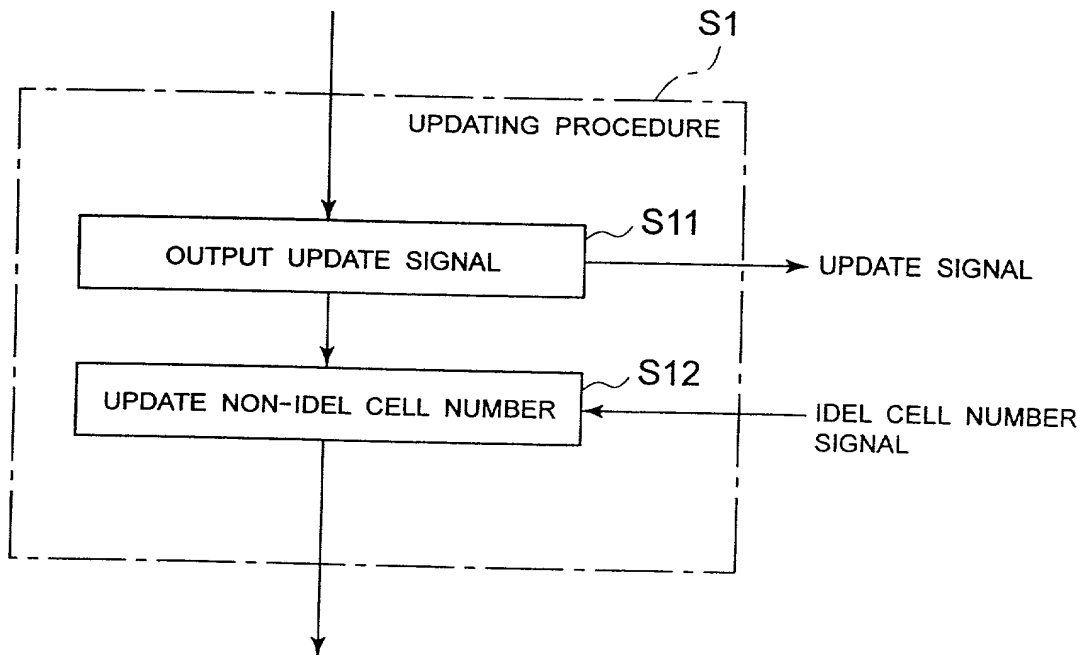
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FIG. 7



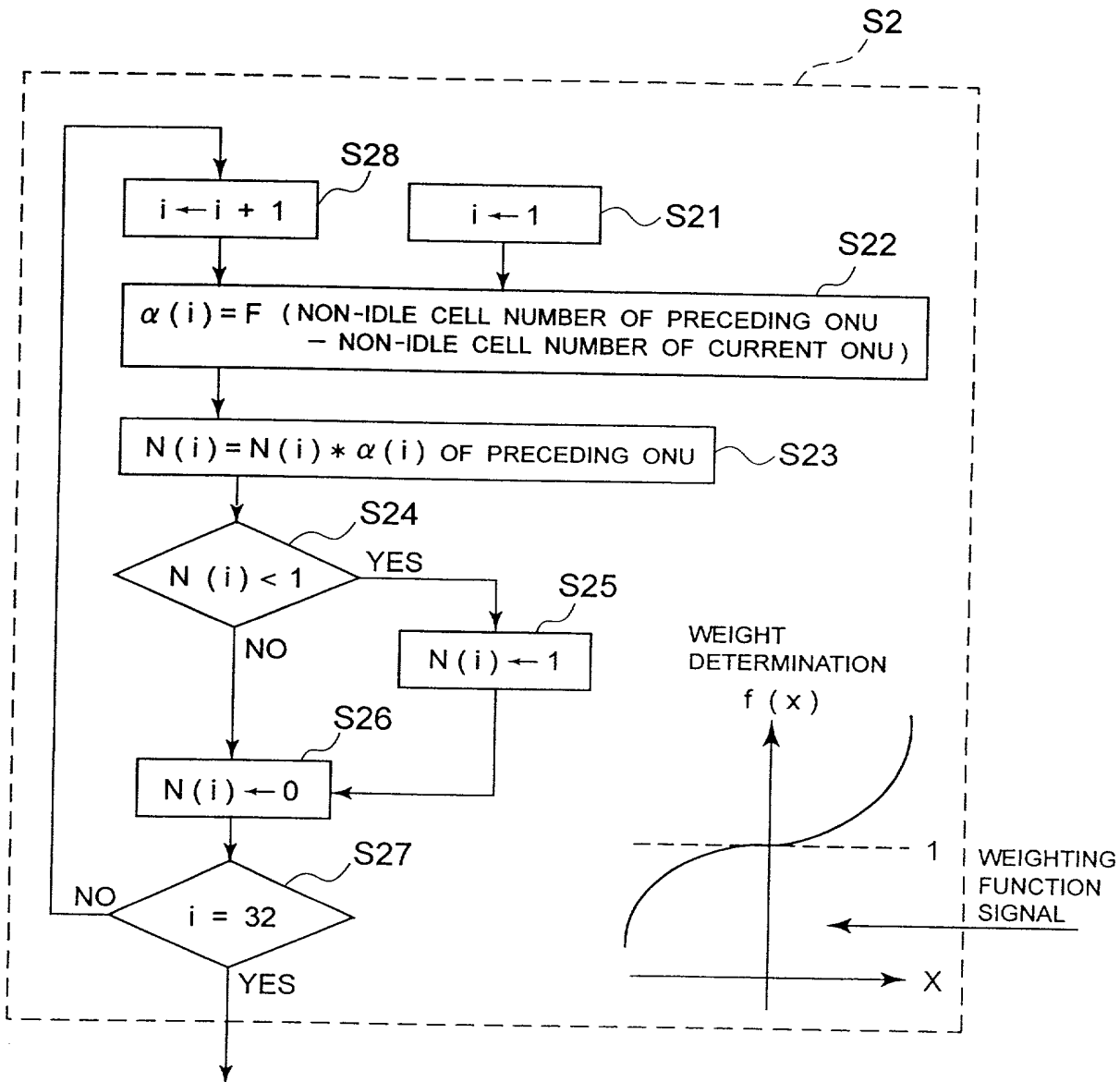
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FIG. 8



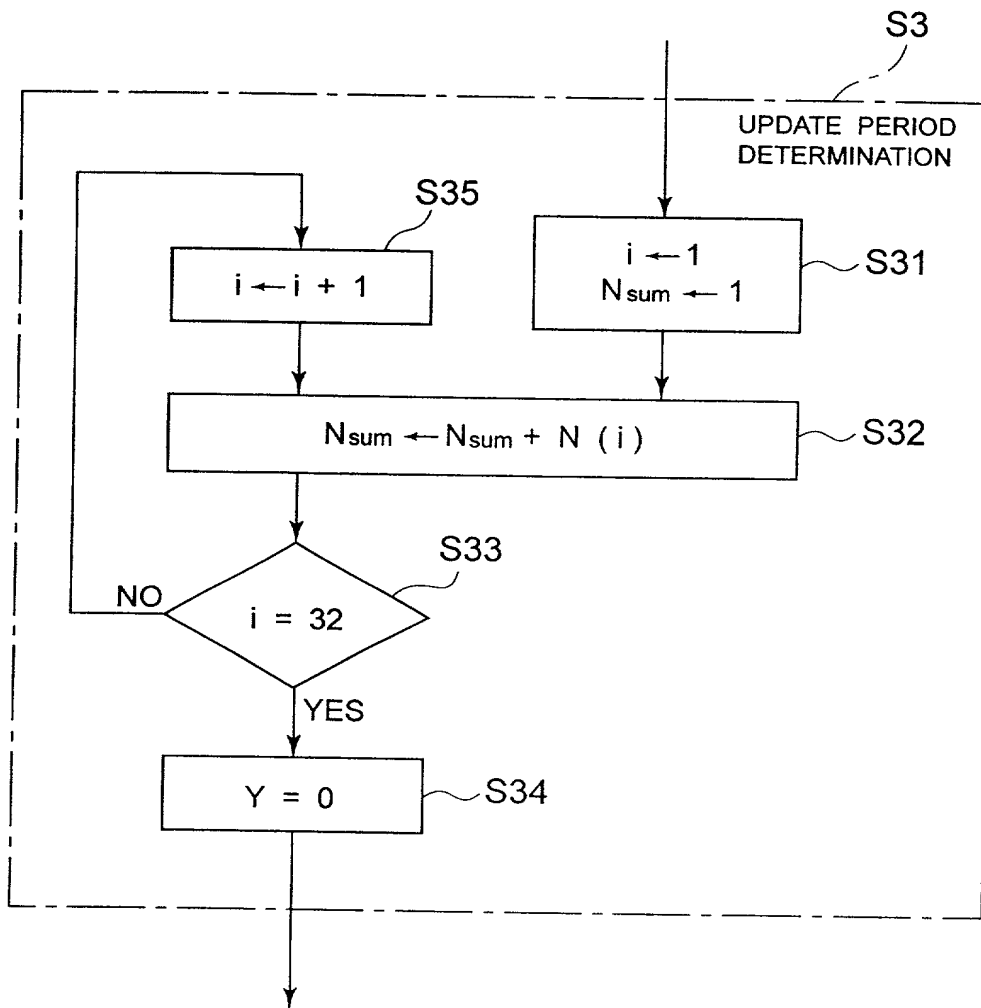
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FIG. 9



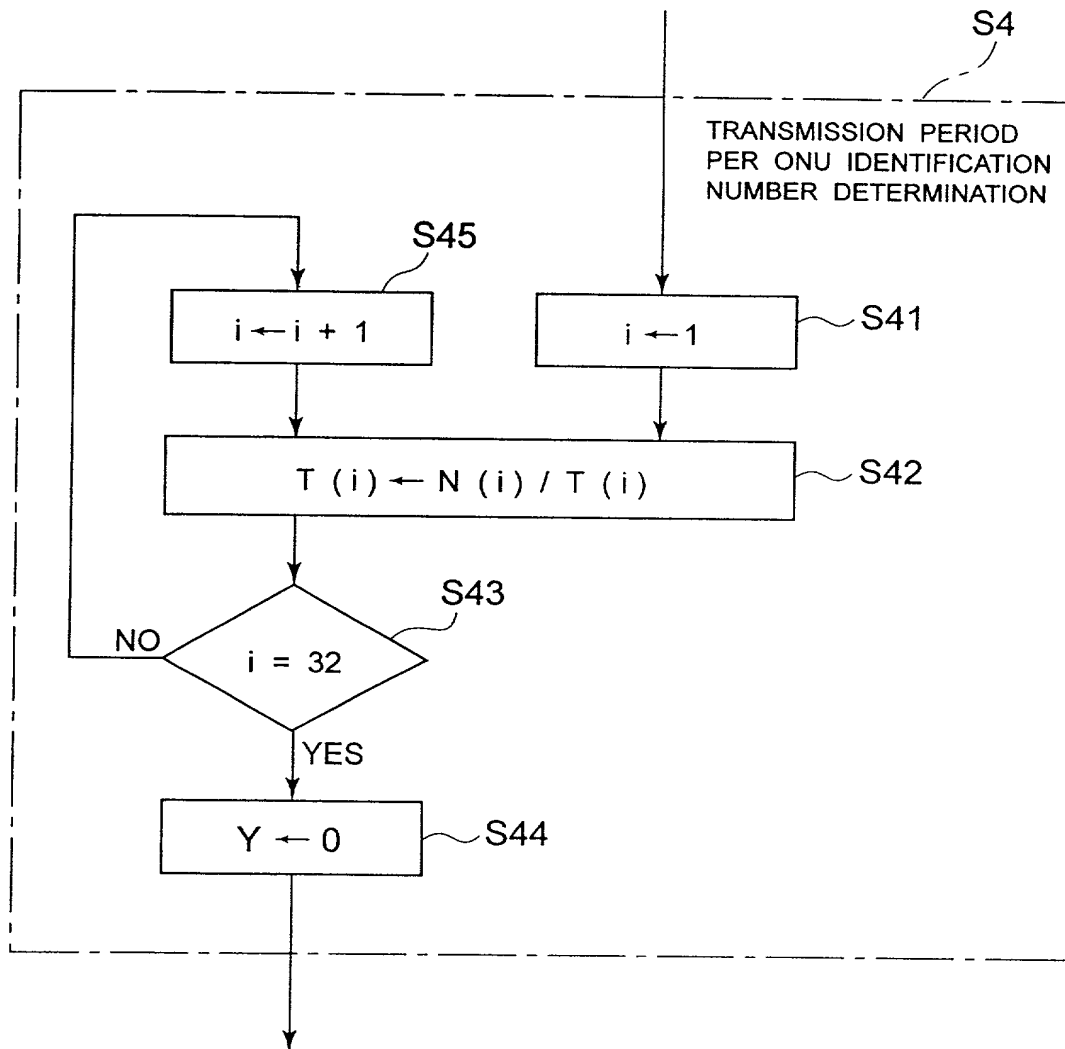
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FIG.10



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FIG.11



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FIG.12

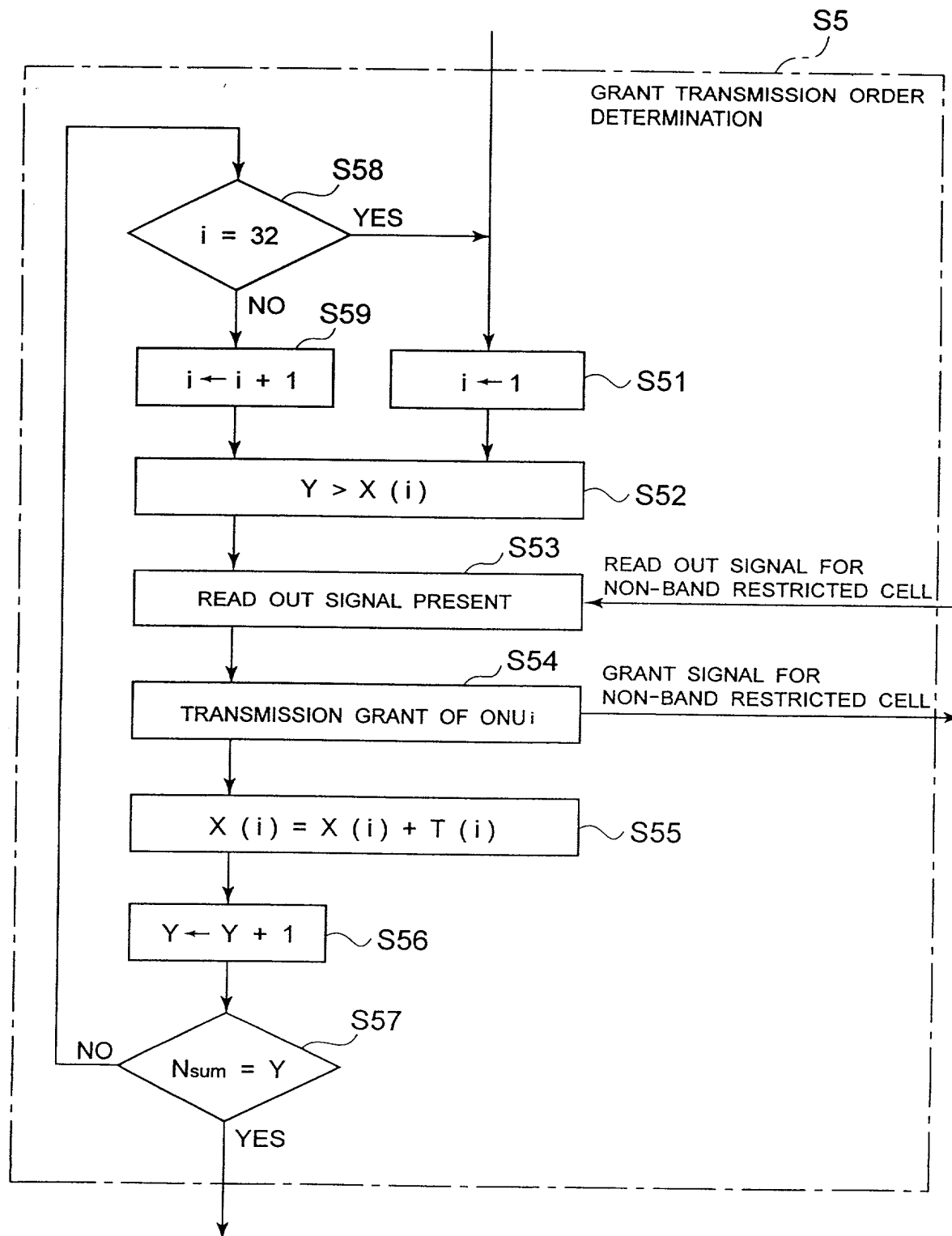


FIG.13

VENDOR_SPECIFIC MESSAGE	
OCTET	CONTENTS
35	Xxxxxxxx
36	01111zzz
37	n1
38	m1
39	n2
40	m2
41	n3
42	m3
43	n4
44	m4
45	00000000
46	UNSPECIFIED

DESCRIPTION

INDICATES ONU SOURCING THIS MESSAGE

MESSAGE IDENTIFICATION "VENDER_SPECIFIC"

NUMBER OF REGION FOR BAND RESTRICTED CELL

NUMBER OF REGION FOR NON-BAND RESTRICTED CELL

NUMBER OF REGION FOR BAND RESTRICTED CELL

NUMBER OF REGION FOR NON-BAND RESTRICTED CELL

NUMBER OF REGION FOR BAND RESTRICTED CELL

NUMBER OF REGION FOR NON-BAND RESTRICTED CELL

NUMBER OF REGION FOR BAND RESTRICTED CELL

NUMBER OF REGION FOR NON-BAND RESTRICTED CELL

COMMAND REPEATING

UNSPECIFIED

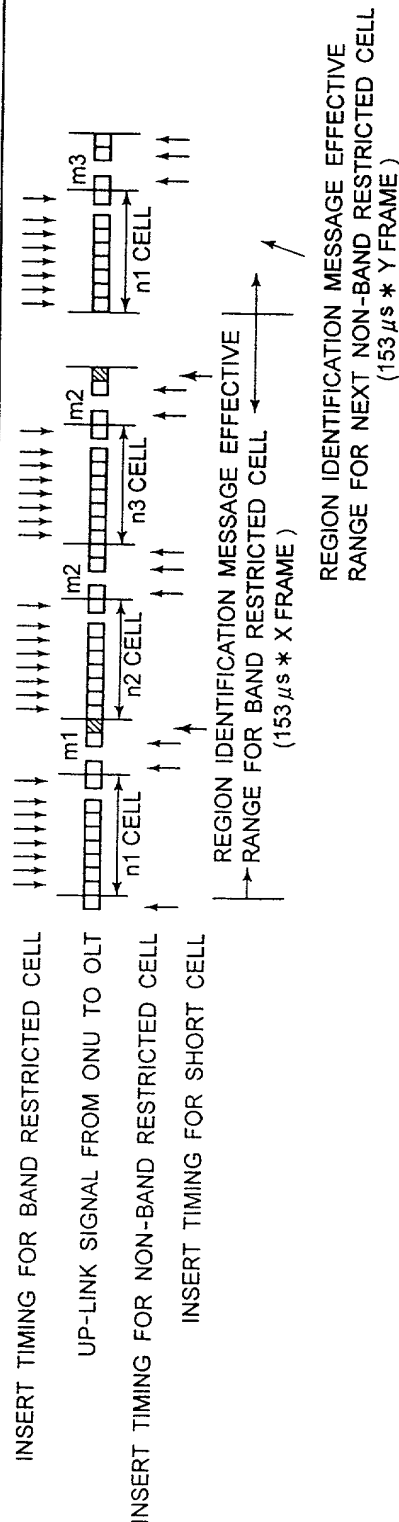
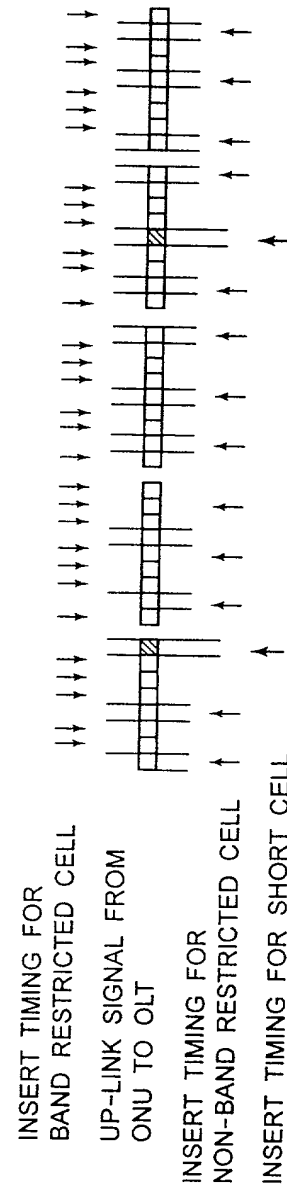


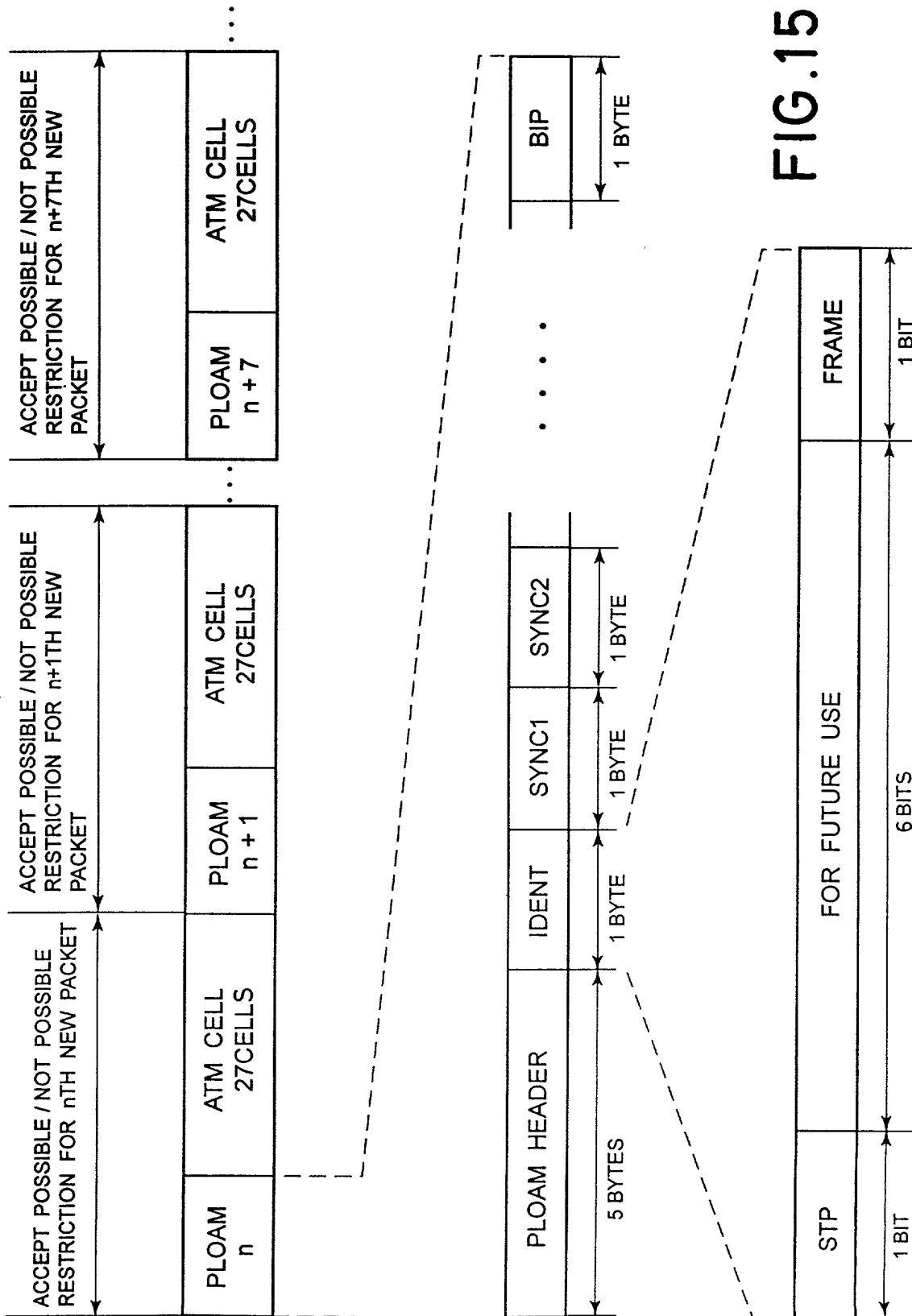
FIG. 14

GRANT_ALLOCATION MESSAGE	
OCTET	DESCRIPTION
35	PON_ID
36	00001010 DIRECTED MESSAGE TO ONE ONU
37	ddddddd MESSAGE IDENTIFICATION "GRANT_ALLOCATION"
38	0000000a DATA GRANT ALLOCATED TO THE ONU WITH THIS PON_ID a:1 = ACTIVATE DATA GRANT FOR THIS ONU a:0 = DEACTIVATE DATA GRANT FOR THIS ONU
39	pppppppp PLOAM GRANT ALLOCATED TO THE ONU WITH THIS PON_ID
40	0000000a a:1 = ACTIVATE PLOAM GRANT FOR THIS ONU a:0 = DEACTIVATE PLOAM GRANT FOR THIS ONU
41	ddddddd DATA GRANT ALLOCATED TO THE ONU WITH THIS PON_ID
42	0000000a a:1 = ACTIVATE DATA GRANT FOR THIS ONU a:0 = DEACTIVATE DATA GRANT FOR THIS ONU
43, 46	UNSPECIFIED

GRANT FOR BAND RESTRICTED CELL GRANT FOR NON-BAND RESTRICTED CELL

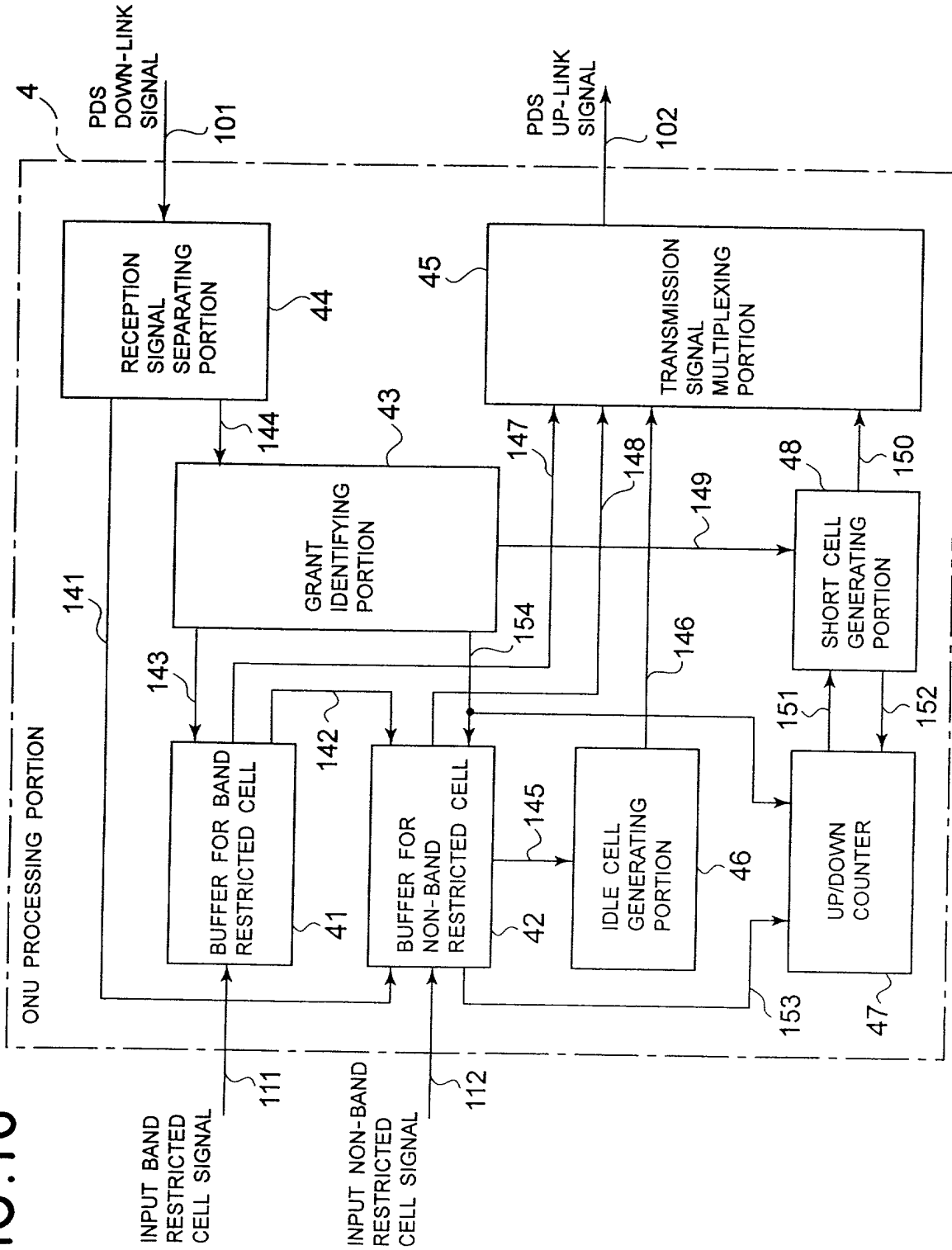


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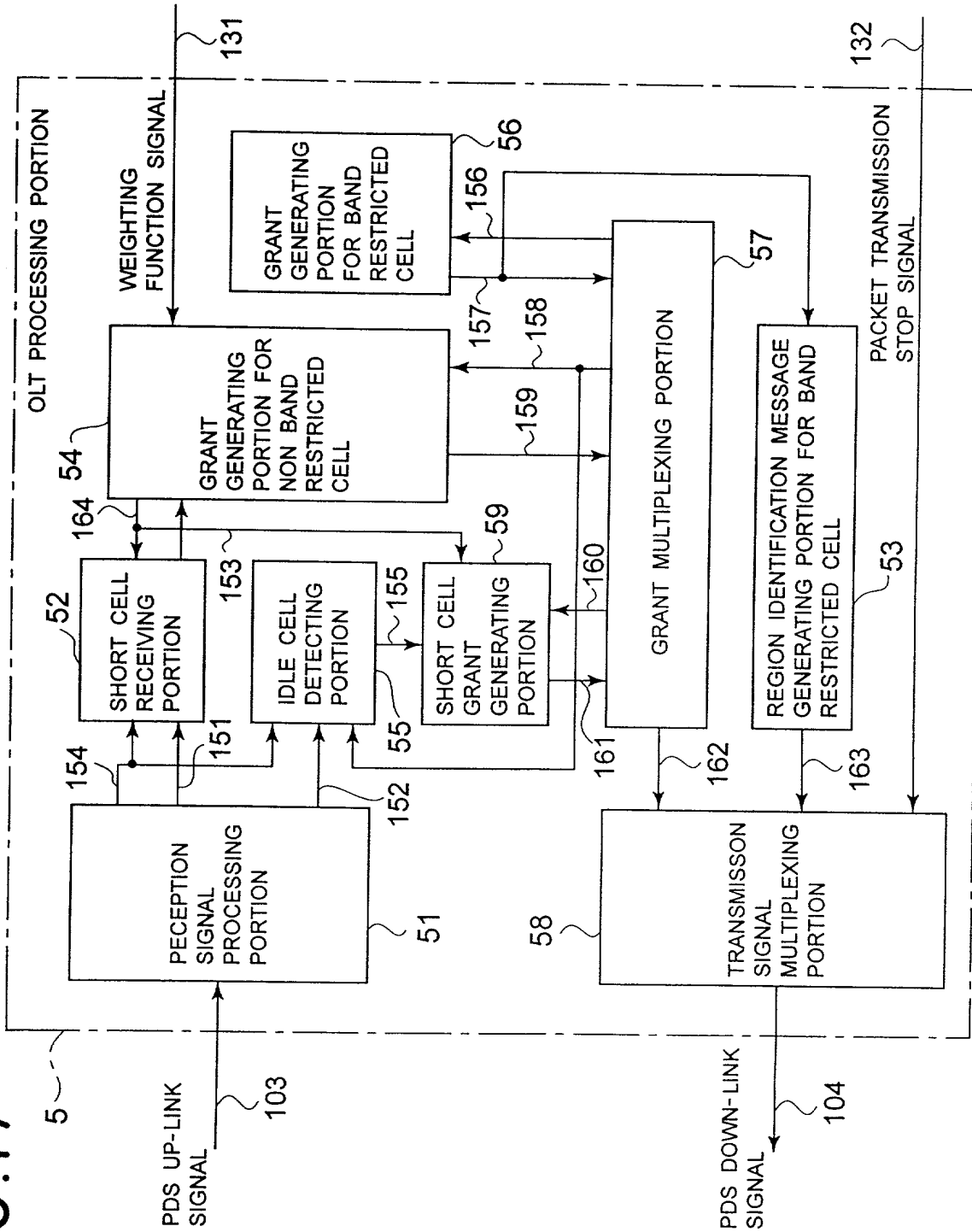
FIG. 16



10/11/01 9:20:36

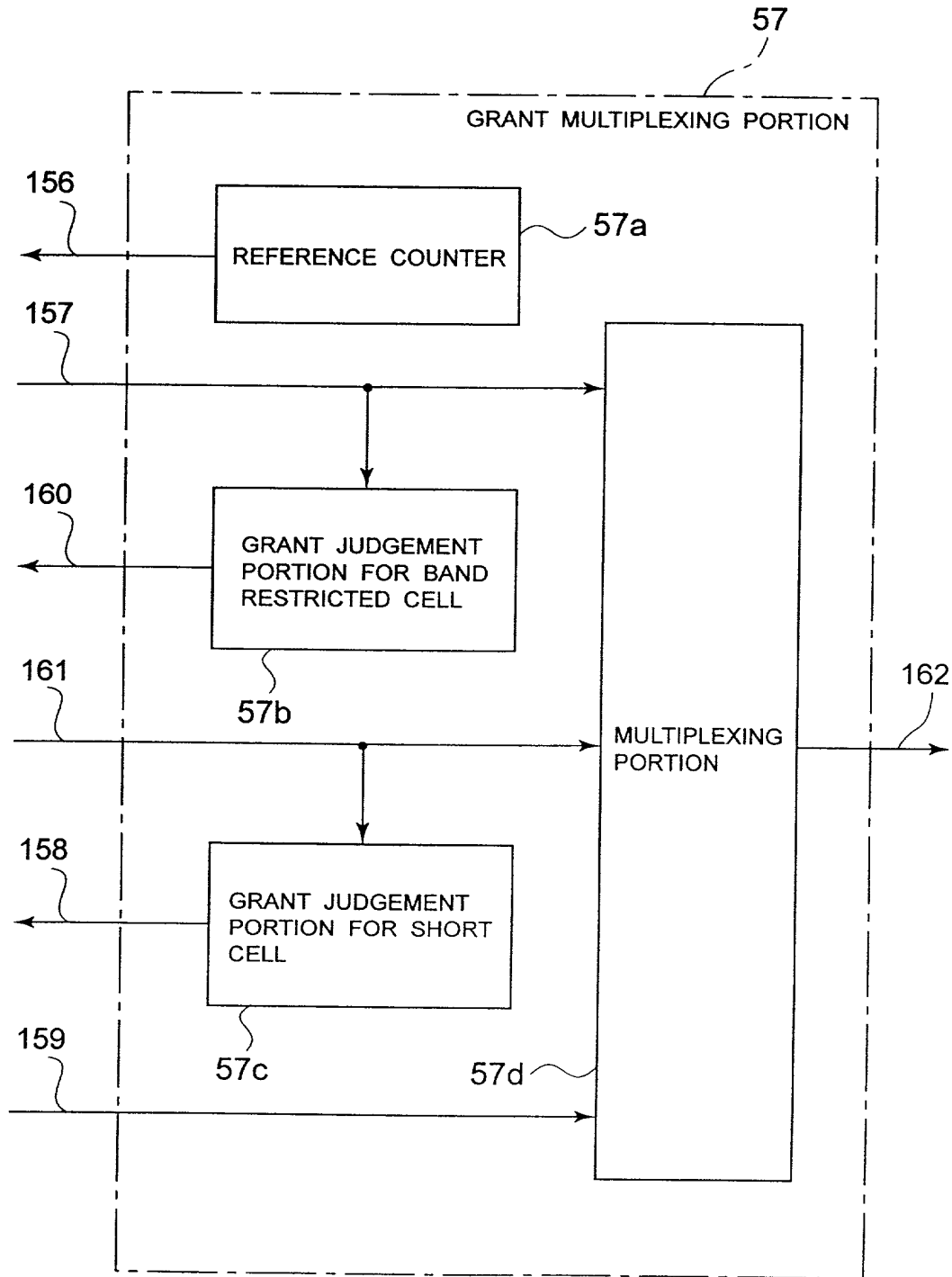
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FIG.17



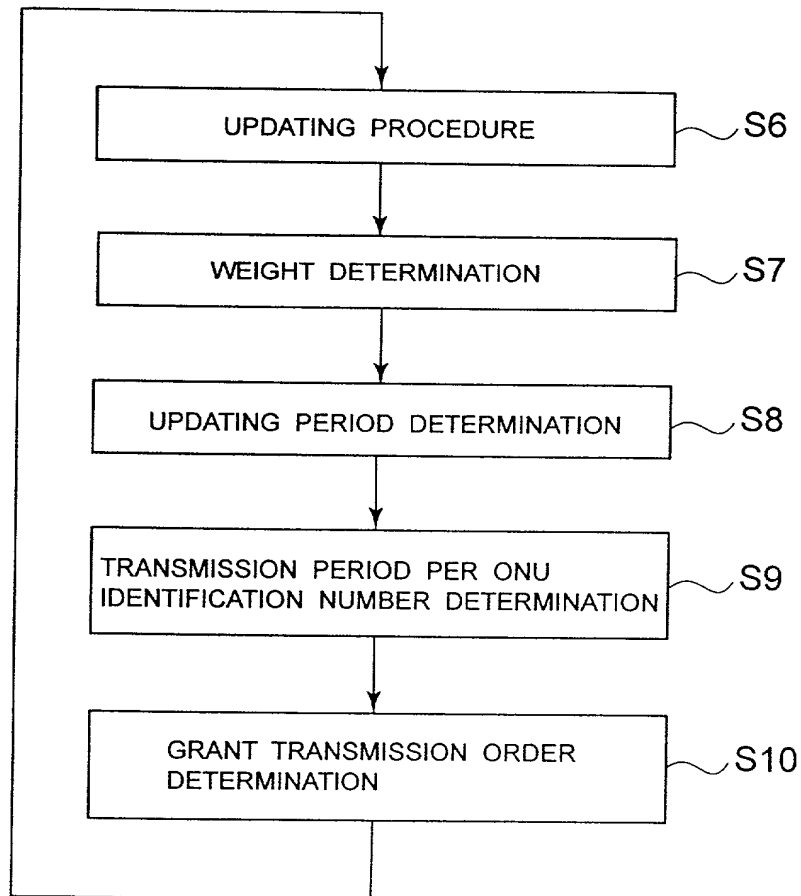
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FIG.18



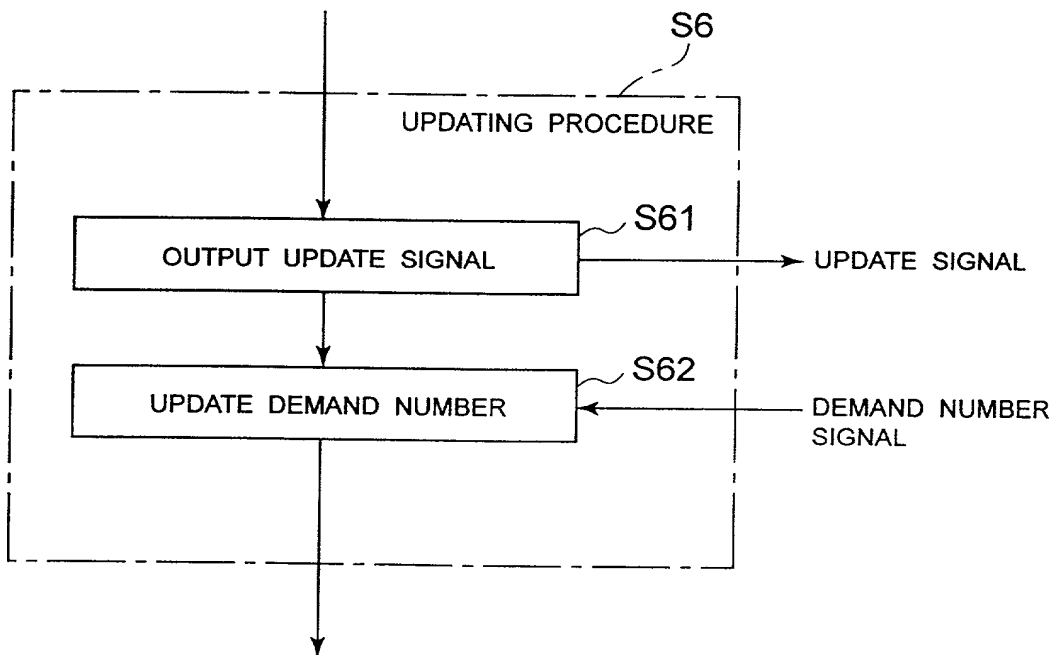
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FIG.19



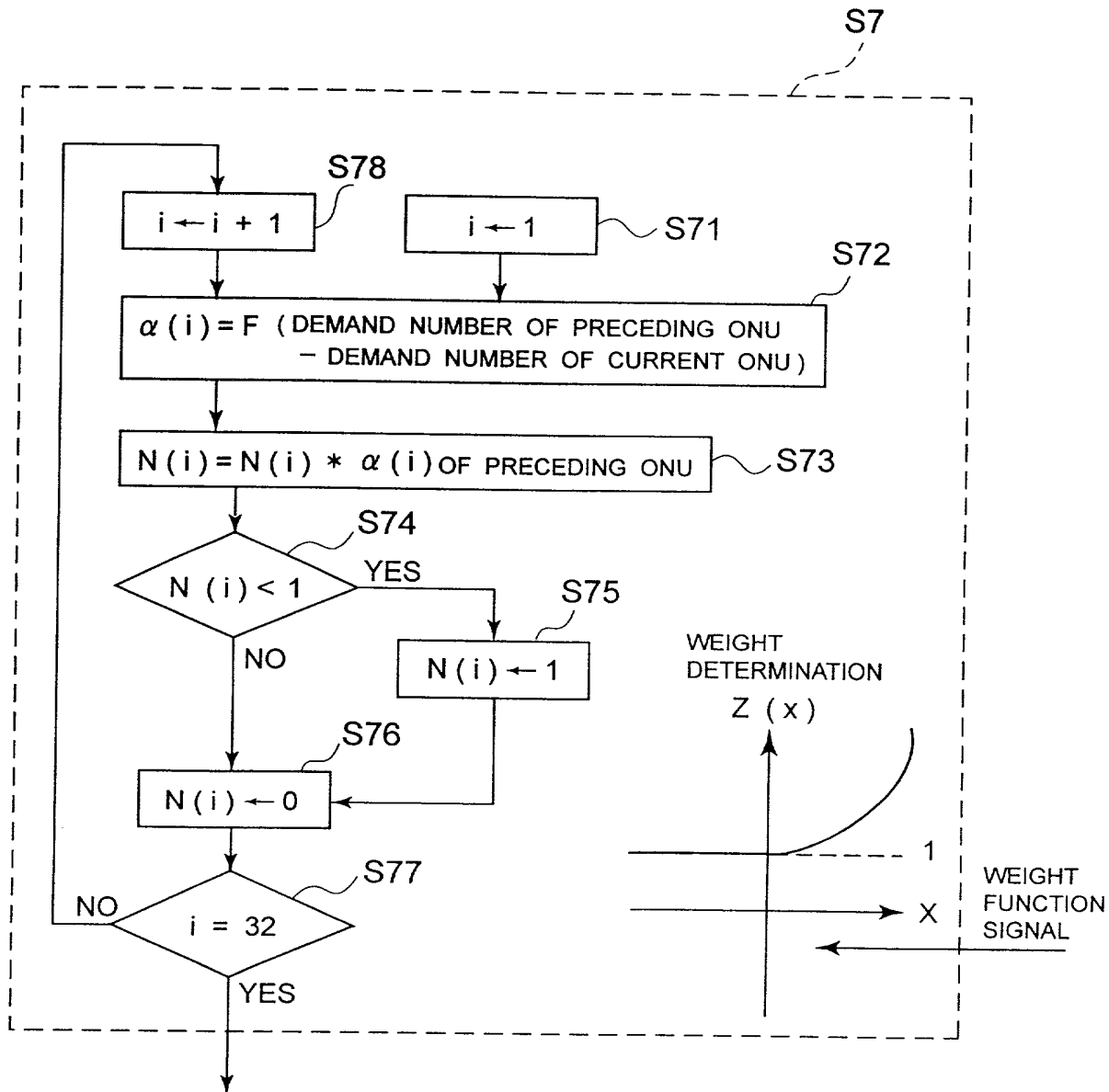
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FIG. 20



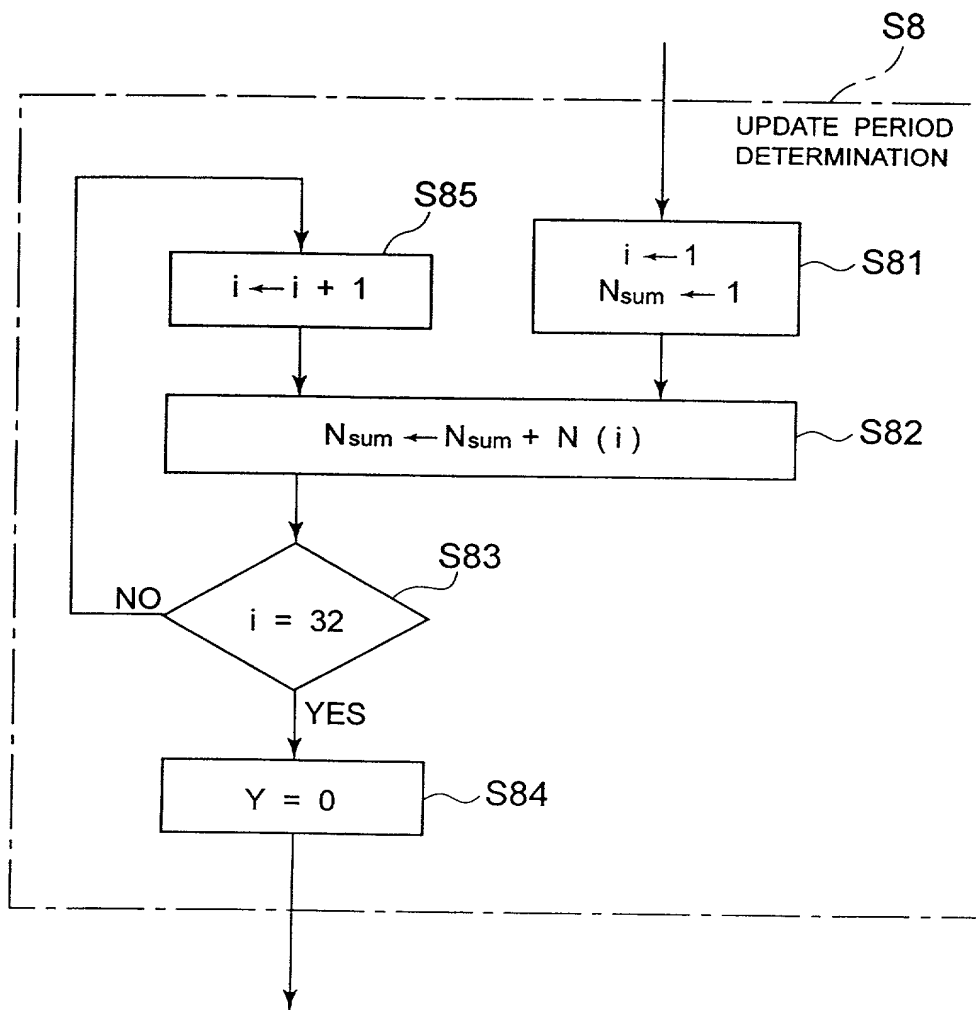
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FIG. 21



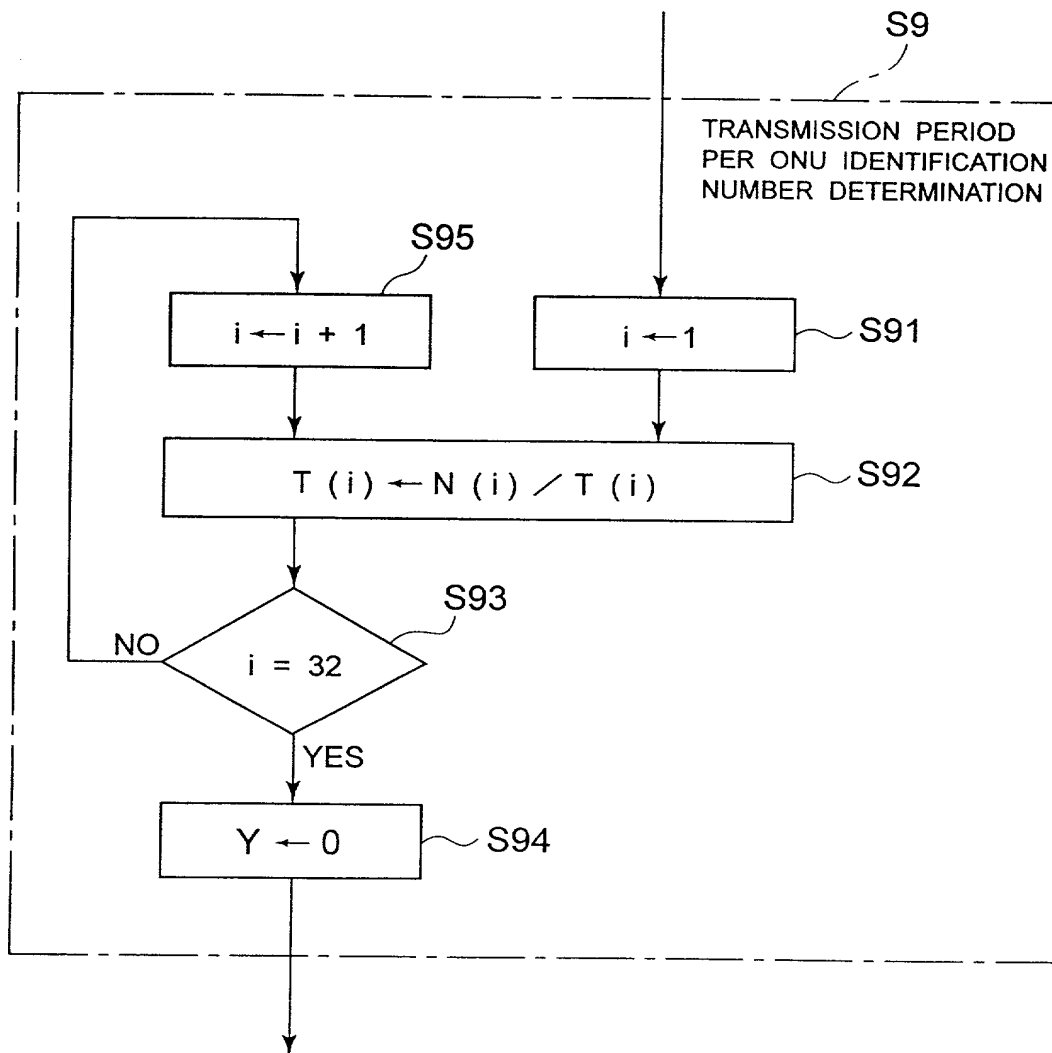
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FIG. 22



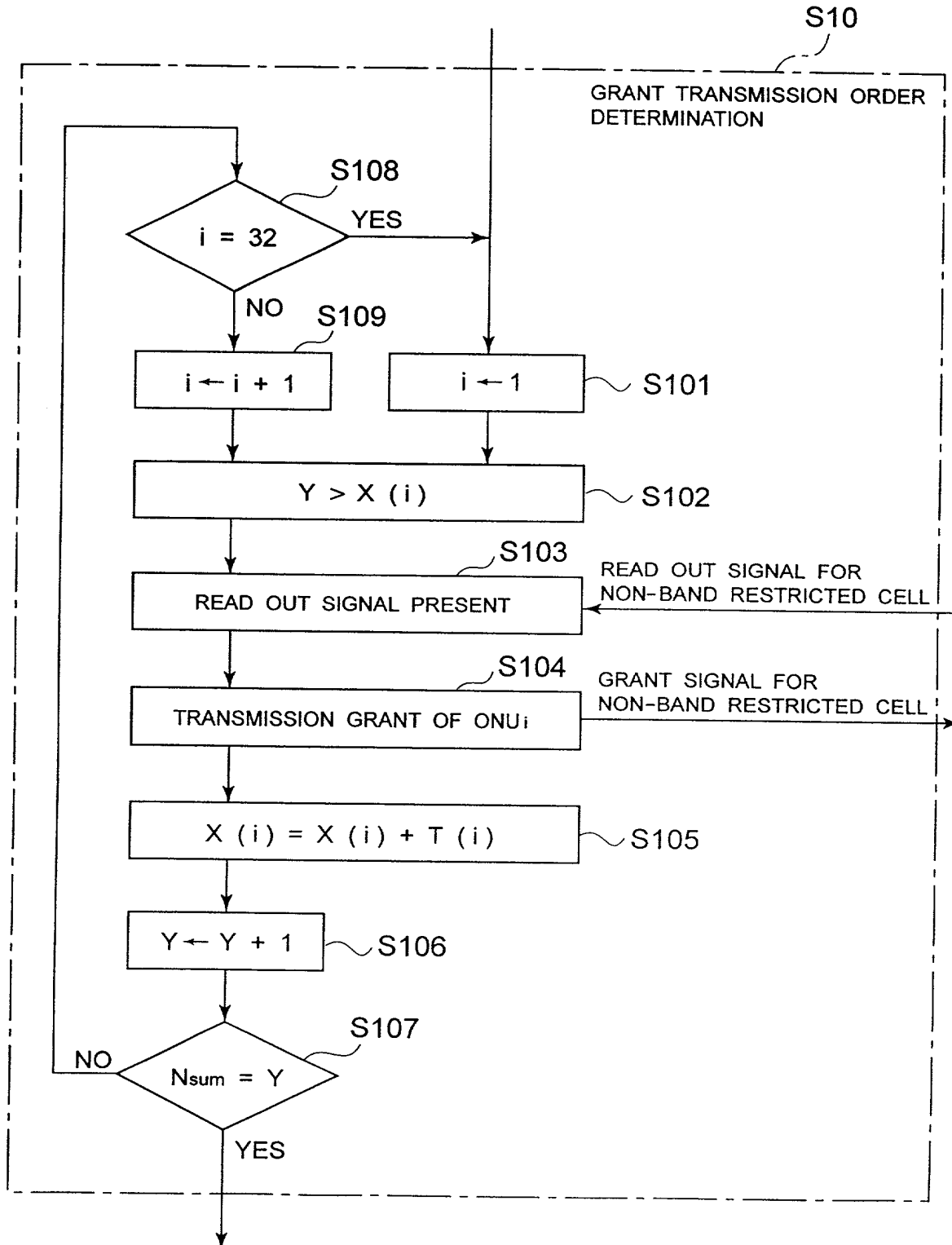
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FIG. 23



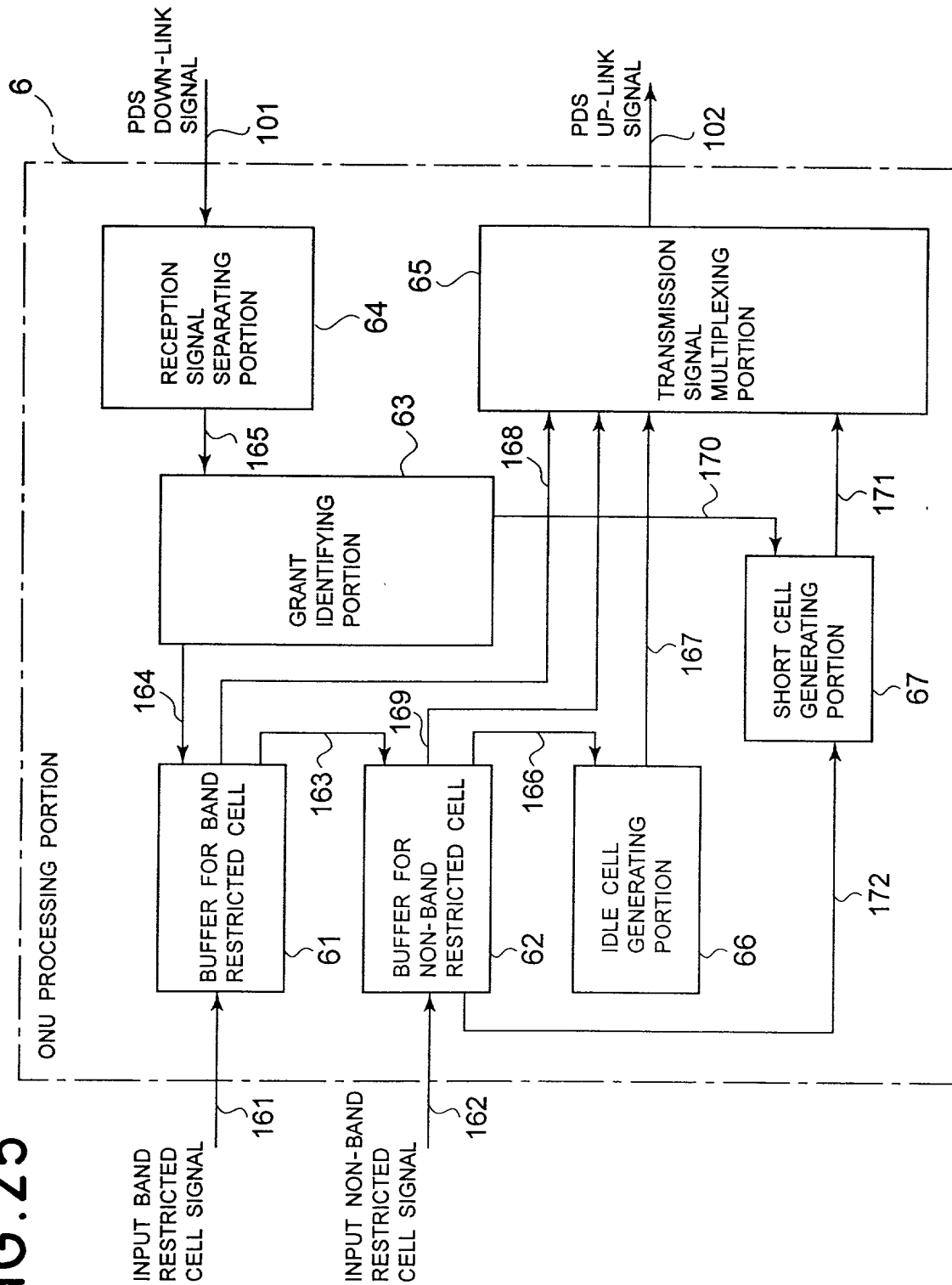
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FIG. 24



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FIG. 25



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FIG. 26

